

5462

TANK CATALOGUE NO. 3.

Established 1880

✧ 1895 ✧

Incorporated 1888

List Prices and Sizes

—OF—

The Famous Louisiana
RED CYPRESS WATER TANKS

Iron and Wood Frame Water-Works Towers,
Railway Tank Outlet Valves
and Street Sprinklers.

MANUFACTURED BY

Callahan & Lewis Manufacturing Co.,
LIMITED,
PATTERSON, LA.

H. FENTON LEWIS, President and General Manager

—•••—
Largest and Most Extensive Manufacturers of Cypress Water
Tanks and Cisterns in the United States.

St. Mary Optic Print, Patterson, La.

Write for copy of our **Cypress Sash and Door Catalogue** on application.

Ask for Discount on Cypress Sash, Doors, Blinds, Moulding, Shingles, Lumber.

TRADE DISCOUNT SHEET.

OCTOBER 1, 1895.

Applying to Our 1895 Water Tank Catalogue, No. 3.

Subject to Change Without Notice.

Patent Draw Lugs and Bolts--Page 10.

If sold F.O.B. Patterson, 25%; F.O.B. Houston, Tex., 20%;
F.O.B. New Orleans, 20%.

Cypress Cisterns & Water Tanks--Pages 12 to 18.

Lists Nos. 1, 2, 3, 4, 5 and 6—F.O.B. Patterson, La., 50%;
F.O.B. Houston, Tex., 40%; F.O.B. New Orleans. 40%.

Railway Water Tank Outlet Valves--Page 19.

F.O.B. Patterson, La., 15%; F.O.B. Houston, Tex., 15%;
F.O.B. New Orleans, 15%.

Street Sprinklers--Pages 20, 21 and 22.

F.O.B. Patterson, La., 10%; F.O.B. Houston, Tex., 10 per cent.; F.O.B. New Orleans, 10 per cent.

TERMS to regular Dealers, who have satisfactory ratings, 60 days' acceptance; to those without ratings, one-third Cash with order, balance on delivery of goods, sight draft with bill of lading attached.

Correspondence solicited from large buyers, wanting a straight car load of these goods.

**Write for copy of our 1895 Moulding Book.
Free on application.**

WE are wholesale man. of the

Gulf Coast Louisiana Red Cypress Lumber,

and can make you delivered prices to any point in the United States.

Our line of manufactured goods are better known to the people of the South, East and West than are those of any of our competitors.

Fifteen years of experience in the manufacture of

CYPRESS WATER TANKS,

coupled with a large plant and ample capital, enables us to offer that service to our customers which is almost impossible to be given by others without these facilities.

OUR SPECIALTIES.

Cypress Water Tanks and Cisterns.

For Water Works Plants; to supply factories, small towns, residences, farms, ranches, breweries, oil works, street sprinklers, cotton mills, for the home and export trade.

Cypress Sash, Doors, Blinds, Moulding, &c.

We are extensive manufacturers of Cypress Sash, Doors and Blinds, Window and Door Frames, Fences and Fence Material, Moulding, Corner Blocks, Mantels; Bank, Office, Church, Court House and School Furniture, for the trade.

Cypress Lumber and Shingles.

We make a specialty of furnishing Tank Lumber to Cistern Makers, as well as Cypress Lumber of all kinds, Shingles, &c. Correspondence solicited.

WINDOW GLASS.

We carry in stock and purchase in large lots, direct from manufacturers, a full line of

WINDOW GLASS OF ALL GRADES AND SIZES,
amounting sometimes to over a thousand boxes and can quote low prices on any amount.

We also carry a full stock of Plain and Ornamental Glass, all colors and styles, and will furnish estimates with pleasure at any time. Church openings a specialty.

HOOP AND BAND IRON.

We carry a larger stock of this material, both Black and Galvanized, than any other concern in our line, and of the very best grades of Pittsburg Iron or Steel, and can name you lower prices than dealers do at distributing points.


We supply the cistern trade at wholesale prices.

BRANCH HOUSES.

We have located at New Orleans, La., a Retail and Wholesale Agency that handles our goods exclusively. We also have a Representative House at Houston, Tex., and the President of our Company is an active partner in both the above houses, whose names and addresses we will furnish with pleasure to anyone wishing or preferring to do business at either of these distributing points.

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A Word to Our Patrons.

TIME, in this age of Commercial Activity, is Money, and we will not trespass too much upon it in this simple introductory. Fifteen Years ago we began the manufacture of **CYPRESS CISTERNS AND WATER TANKS**, and have continued to do so every day since that time. We therefore feel perfectly able to take care of our Customers, and as most of them know we are at the top of the ladder in the manufacture and sale of these goods. Our aim at all times is to give the best goods for the money on the American market.

We employ Fifty Men the year round, and have the most complete plant in the country. We operate a sawmill and a complete Sash and Door plant and planing mill in connection with our Tank Works, and we have long since passed the experimental stage in all of our Departments, which have able and competent men to manage them.

The President and General Manager of our Company, who is the principal owner of its capital, is to-day only thirty four years of age, and with an experience and knowledge of the business in all its details possessed by few manufacturers in this line. Our aim is to keep abreast of the times in all things pertaining to the manufacture and sale of these goods, and at all times treat our customers with that courtesy due from one business house to another, and such you will find us in the long run if you give us your confidence and business.

Callahan & Lewis Mfg. Co., Ltd.

What We Want

We want you to understand that every bill of goods we sell is worth the money asked for it.

We want no man to send us an order, unless he has full confidence in our ability to fill it.

We want no one to be deceived by what we say in this Catalogue. We cannot afford to mislead a customer.

❖ How to Order. ❖

SPECIAL.—When ordering Cisterns be careful to mention number of list; whether Cistern is wanted “set up” or “knocked down;” give diameter of bottom first and length of stave next, finished or unfinished. In the absence of instructions, we will ship only finished Cisterns, and K. D.

We are sometimes favored with orders from those who are not engaged in mercantile affairs, or so recently commenced that they are not reported by the Commercial Agencies. While such buyers often prove to be thoroughly responsible, yet our rule is, in executing orders, from patrons not favorably rated by the Commercial Agencies, or not furnishing satisfactory references, to make shipments to our own order, and to send Sight Draft with Bill of Lading attached thereto, through Bank or Express for collection. The invoice for the goods in such cases is mailed direct to the customer, so he may be duly advised of the amount of Draft, and the itemized charges. The Bill of Lading is, of course, full evidence of shipment of goods in good order, and we guarantee them as represented in Invoice and Bill of Lading.

DO NOT PAY AGENTS.

Make your order **CLEAR, DISTINCT AND COMPLETE.**

Always read your Orders over after they are written, to avoid mistakes.

Never incorporate an order in the body of a letter, but make your order on a separate sheet or by itself on the same sheet.

Give us page and publication, and what you want by figure.

Never order by referring to a former shipment, but make your order **SHOW ON ITS FACE ALL THAT YOU WANT.**

We will not be responsible for mistakes made by your leaving us to guess at what is wanted.

REMITTANCES may be made by draft on New Orleans, New York, Chicago or St. Louis; Post Office Money Order, Express Money Order or Express.

TERMS—Cash, unless otherwise agreed.

CYPRESS CISTERNS.

Causes of Imperfect Cisterns.

The attention of the trade is called the fact that every Cistern or Tank sent out from our factory is well manufactured and of the best material.

The claim by hand cistern makers that machinery cannot be employed in making perfect work in manufacturing cisterns, in these days of steam and electricity, is a very weak endeavor to justify their exorbitant charges, or they are far behind the times, and have not the push of their more energetic competitors.

The usual causes of imperfect Cisterns are: Not setting bottom on a level foundation; not having sufficient bearing under Cistern to support all the pieces of the bottom; not opening each joint of bottom $\frac{1}{8}$ to $\frac{1}{4}$ inch, and tacking a strip of wood across to keep the joints open while setting on the staves; not putting all the staves on the bottom that are numbered, and in the order as numbered, by ripping off or re-jointing the last stave to make it fit; not keeping water sufficient to cover the bottom until the rain fills the cistern; not having gutters and down spouts properly made and of sufficient capacity for your cistern; not keeping it covered and painted. A short stave and a large diameter of bottom give the best results, especially in a sunny exposure. Be careful and keep your water clean. While the old adage is true that one-third of our life is spent in bed, how much of it is spent in eating and drinking food prepared from water?

Directions for Setting up Cisterns.

1—Lay the bottom on a level foundation. If the foundation be of wood, see that each piece of bottom is supported.

2—Open each joint in the bottom from $\frac{1}{8}$ to $\frac{1}{4}$ of an inch, then tack a strip across the bottom to keep the joints open, until the staves are on. See that the marked side is up.

3—Set all the staves on the bottom, commencing with stave No. 1, starting at No. 1 on bottom, and continue with staves No. 2, 3, 4, etc., around the bottom until all the staves are on. Do not rip or re-joint the staves; open the bottom enough to receive all that are numbered.

4—Put a small rope around the cistern, draw tight and put on widest hoop, No. 1. Drive it down until the lower edge covers the bottom; draw top together with the rope and put on hoop No. 2, 3, etc. While driving hoops, and before they become too tight, tap the staves out from the inside of cistern, to make them fit the hoop, leaving a smooth finish.

5—When finished put water immediately in the cistern, and keep water in the cistern until it rains. See that gutters and down spouts are ample to supply your Cisterns. Have your Cisterns covered and paint the outside.

Special to Cistern Makers & Lumbermen

We propose to sell cistern makers and lumber dealers, who desire to finish their own cisterns, cistern material in this way: We furnish the staves, cut to lengths, grooved, backed and jointed to bevel, and with sufficient taper to make a good shaped cistern. Our joints on this class of work are not perfect, but can be made so by taking a shaving off the edge with a hand plane. Our bottoms are jointed, doweled, put together and cut to a circle, but not dressed to the gauge on the edge, as it is better to leave this until the cistern is ready to put up, for fear of bruising the edge in handling. This material will enable an ordinary mechanic to get a cistern ready for hoops in an hour, without any waste of material. And if he has our iron, which is cut to lengths for cisterns and put up in a package ready for punching and riveting (one end being already punched) he can hoop and finish a 6x8 cistern in two hours more, making three hours work on a 6x8 cistern complete, at, say, a cost of 25 cents per hour, being a total of 75 cents, the actual cost of work. Now then, we propose to sell a 6-foot bottom and 8-foot stave, made of $1\frac{1}{2}$ inch material, with six hoops, just in the shape as above stated, for \$14.50; add to this your labor, 75 cents, making \$15.25, and we will suppose you have to pay \$1.75 freight to your place; this makes a total cost of cistern \$17. The standard retail price of this size being \$24, you have a clear profit on half a day's work of \$7.00. Even admitting you have to cut 10 per cent. to make the sale, you still have a handsome profit left.

UNFINISHED CISTERN TOPS.

We manufacture large quantities of cistern tops, of all sizes, both flat and raised, with finals. Prices will be furnished on application.

WHY WE CAN SELL

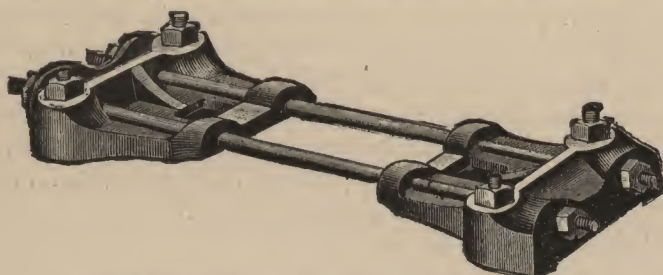
So many cisterns is because we have the machinery and the best arranged factory in the South, and are right in the midst of the great cypress lumber district, purchasing close and giving our trade the benefit of the same. And we naturally get freight rates at nearly one-half less than other concerns have to pay, especially to Western points.

PATENT DRAW LUG AND BOLT.

Patented February 14, 1888.



Showing Under Side of Draw Lug with Single Bolt.



Showing Upper Side of Draw Lug with Double Bolt.

PRICE PER SET:

			Size of Bolt	Price	Weight
2 inch Lug with Single Bolt.....			$\frac{5}{8}$ x 18	\$0 70	7 lbs.
2 $\frac{1}{2}$ " " " "			$\frac{3}{4}$ x 18	86	9 "
3 " " " "			$\frac{3}{4}$ x 18	1 00	10 "
3 $\frac{1}{2}$ " " Double " "			$\frac{5}{8}$ x 18	1 50	18 "
4 " " " "			$\frac{3}{4}$ x 18	1 72	22 "
4 $\frac{1}{2}$ " " " "			$\frac{3}{4}$ x 22	2 00	26 "
5 " " " "			$\frac{7}{8}$ x 22	2 68	36 "
5 $\frac{1}{2}$ " " " "			1 x 22	3 05	42 "
6 " " " "			1 $\frac{1}{8}$ x 22	3 70	47 "

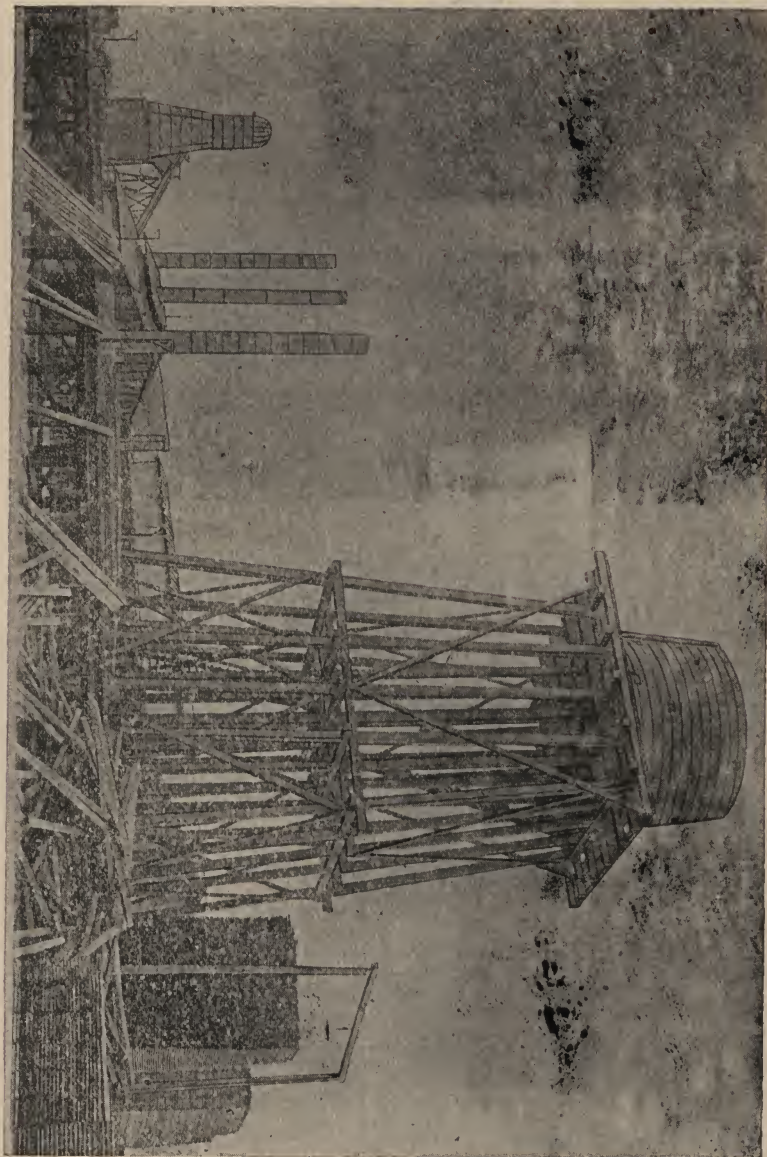
Special and Extra Heavy Sizes.

1 $\frac{3}{4}$ inch Lug with Single Bolt.....			$\frac{5}{8}$ x 14	68
2 " " " "			$\frac{3}{4}$ x 18	95
3 " " " "			$\frac{7}{8}$ x 18	1 30
3 $\frac{1}{2}$ " " Double " "			$\frac{3}{4}$ x 18	1 68

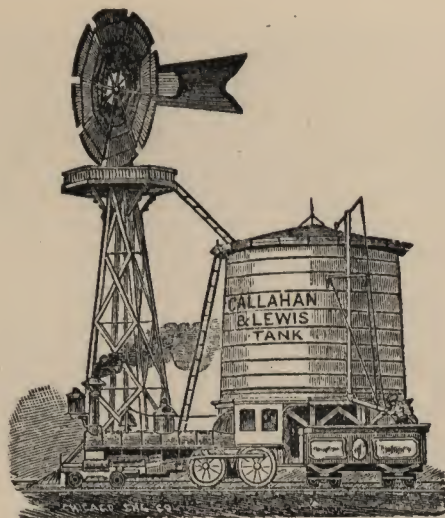
Write for Discounts.

Lugs and Bolts are very important on Water Tanks, where used at all, and we have selected what we consider the best Lug on the market at present to be used on our work. We sell them separate or in sets as desired, and furnish our tanks with them when specified.

We can also furnish Cistern Drivers when needed to drive riveted hoops down tight on Cisterns. Correspondence with Cistern makers desired, to whom we can offer especially low prices on the above goods.



The above cut shows one of our 50,000 gallon tanks, erected on a 75 foot tower, by the Bradley-Ramsey Lumber Company, of Lake Charles, La., who have several of our tanks in use for protection against fire. There are thousands of our tanks in use for waterworks purposes.



CAPACITIES.

We caution our friends to beware of the manufacturer who quotes a price on a tank of so many gallons capacity, unless specially requested to do so.

There are different ways of figuring capacities of round reservoirs, and we give the rule below usually followed by us in figuring the capacities of cisterns:

- 1—Multiply the diameter by the diameter.
- 2—Multiply the result by the length of staves.
- 3—Multiply the result by 6.
- 4—Deduct from result 10 per cent., and the remainder will be the capacity in gallons.

EXAMPLE

A Cistern 6 feet in diameter and 8 feet length of staves, contains 1556 gallons—thus:

6 diameter multiplied by 6 diameter is 36; 36 multiplied by 8, length of staves is 288; 288 multiplied by 6 is 1728; subtracting 10 per cent., 172, the remainder is 1556, the capacity of the cistern.

STANDARD LIST NO. 1.
Finished Cisterns Made from One and One-Half Inch Lumber.

Bot. diam., ft.	Length of Stave—Feet.												
	2	2½	4	5	6	7	8	9	10	12	14	16	
4	a	7 25	8 50	12 00	14 00	16 40	18 70	21 00	23 25	24 50	30 00	34 50	39 25
	b	9 75	11 00	15 50	17 50	22 25	24 50	28 50	30 75	33 50	40 00	49 50	55 75
	c	166	197	274	325	377	435	490	534	563	696	830	911
	d	2	2	3	3	5	5	6	6	7	8	10	12
	e	171	216	346	432	519	605	692	778	864	1037	1210	1383
5	a	9 75	11 25	15 50	18 25	21 00	24 00	26 75	29 50	32 25	38 00	43 50	49 00
	b	12 25	13 75	19 00	21 75	26 75	29 75	34 25	37 00	41 25	48 00	58 50	65 50
	c	226	261	365	410	482	557	620	679	743	872	989	1232
	d	2	2	3	3	5	5	6	6	7	8	10	12
	e	270	338	540	675	810	945	1080	1215	1350	1620	1890	2160
6	a	13 00	14 50	17 50	23 00	26 25	29 50	33 00	36 25	39 50	46 25	52 75	59 50
	b	15 50	17 00	23 50	27 00	32 00	35 25	40 50	43 75	48 50	56 25	67 75	76 00
	c	302	331	442	534	609	679	766	843	911	1073	1219	1370
	d	2	2	3	3	5	5	6	6	7	8	10	12
	e	389	486	778	972	1167	1361	1556	1750	1944	2333	2722	3111
7	a	16 25	18 00	24 00	27 75	31 50	35 50	39 25	43 00	47 00	54 75	60 75	70 00
	b	19 00	21 00	28 00	32 00	37 25	42 25	46 75	51 00	56 00	64 75	77 25	88 00
	c	377	438	567	644	731	818	905	990	1085	1265	1404	1624
	d	2	2	3	3	5	5	6	6	7	8	10	12
	e	530	659	1059	1323	1588	1853	2117	2382	2646	3176	3705	4234
8	a	20 00	22 25	28 80	33 25	37 75	41 75	46 50	50 50	55 00	63 75	72 50	81 25
	b	23 00	26 25	33 50	38 25	44 50	48 50	54 75	59 00	65 00	74 75	90 00	99 50
	c	464	536	667	766	871	963	1079	1165	1286	1474	1682	1880
	d	2	2	3	4	5	5	6	6	7	8	10	12
	e	692	864	1383	1728	2074	2420	2765	3111	3456	4148	4839	5530
9	a	24 00	26 50	34 00	39 00	44 00	49 00	54 00	58 25	64 00	73 75	84 00	93 75
	b	28 00	30 50	39 00	45 00	50 75	55 75	62 50	67 00	74 00	85 75	102 00	112 75
	c	557	615	795	905	1026	1131	1253	1346	1486	1710	1949	2175
	d	2	2	3	4	5	5	6	6	7	8	10	12
	e	875	1091	1750	2187	2625	3062	3500	3937	4374	5249	6164	6999
10	a	30 50	32 25	39 60	45 00	50 50	56 00	61 50	67 00	72 50	83 50	94 50	105 75
	b	35 00	37 00	45 50	51 75	58 00	62 50	69 75	75 75	84 50	96 50	113 50	125 75
	c	710	740	917	1040	1172	1295	1427	1539	1682	1975	2182	2448
	d	2	3	3	4	5	5	6	6	7	8	10	12
	e	1080	1350	2160	2700	3240	3780	4320	4860	5400	6480	7560	8640
12	a	38 50	44 50	51 75	58 50	65 00	71 75	78 50	85 00	91 75	105 00	120 00	131 50
	b	44 50	51 25	58 50	67 25	72 50	79 25	88 00	94 50	104 00	119 00	140 00	155 00
	c	875	995	1185	1349	1504	1665	1796	1972	2124	2436	2784	3050
	d	2	3	3	4	5	5	6	6	7	8	10	12
	e	1556	1944	3111	3888	4666	5444	6221	6999	7776	9332	10887	12420

A—Price with riveted hoops. B—Price with lug hoops. C—Weight of tank. D—Number of hoops. E—Capacity in gallons.

STANDARD LIST NO. 2.
Finished Cisterns Made from Two Inch Lumber.

Length of Stave—Feet.

Bot. diam., ft.	Length of Stave—Feet.											
	2	2½	4	5	6	7	8	9	10	12	14	16
4	a	9 50	11 50	16 00	18 50	22 00	25 00	28 00	31 00	34 00	40 00	52 25
	b	12 25	14 25	20 25	22 75	28 50	31 50	36 75	39 75	44 00	52 00	71 25
	c	215	253	368	418	486	565	626	694	767	898	1033
	d	2	2	3	3	5	5	6	6	7	8	10
	e	171	216	346	432	519	605	692	778	864	1037	1210
5	a	13 00	15 00	20 75	24 25	28 00	32 00	35 75	39 25	43 25	50 75	65 25
	b	15 75	17 75	25 00	28 50	34 50	38 50	44 75	48 25	53 25	62 75	85 00
	c	294	342	466	544	626	717	792	877	963	1133	1475
	d	2	2	3	3	5	5	6	6	7	8	10
	e	270	338	540	675	810	945	1080	1215	1350	1620	2160
6	a	17 50	19 50	26 00	30 50	35 00	39 50	44 00	48 25	52 50	61 50	79 50
	b	20 25	22 50	30 50	35 00	41 50	46 00	53 00	57 25	63 50	74 50	100 00
	c	385	433	579	691	785	876	987	1094	1192	1389	1785
	d	2	2	3	3	5	5	6	6	7	8	10
	e	389	486	778	972	1167	1361	1556	1750	1944	2333	3111
7	a	21 75	24 00	32 00	37 00	42 00	47 50	52 25	57 50	63 00	73 00	93 50
	b	25 50	27 75	37 00	43 50	48 50	54 00	61 75	67 00	74 00	86 00	114 50
	c	485	549	726	837	948	1075	1169	1296	1407	1639	2094
	d	2	2	3	4	5	5	6	6	7	8	10
	e	530	659	1059	1323	1588	1853	2117	2382	2646	3176	4234
8	a	26 50	29 75	38 50	44 25	50 25	55 75	62 00	67 25	73 50	85 00	108 25
	b	30 25	33 75	43 50	50 75	58 00	63 50	71 50	76 75	85 50	99 00	130 25
	c	604	668	864	985	1130	1253	1399	1516	1655	1918	2440
	d	2	2	3	4	5	5	6	6	7	8	10
	e	692	864	1383	1728	2074	2420	2765	3111	3456	4148	5530
9	a	32 00	35 50	45 50	52 00	58 50	65 25	72 00	77 75	85 50	98 25	125 00
	b	35 75	39 25	51 00	59 00	66 25	73 00	82 00	87 75	97 50	112 25	147 00
	c	725	810	1019	1178	1320	1460	1630	1746	1923	2216	2812
	d	2	2	3	4	5	5	6	6	7	8	10
	e	875	1091	1750	2187	2625	3062	3500	3937	4374	5249	6999
10	a	40 50	43 25	52 75	60 00	67 25	74 75	82 00	89 50	95 50	111 50	141 00
	b	44 50	48 75	58 25	67 00	75 00	82 50	92 00	99 50	109 00	126 00	165 00
	c	914	965	1189	1354	1525	1675	1843	2013	2177	2508	3170
	d	2	3	3	4	5	5	6	6	7	8	10
	e	1080	1350	2160	2700	3240	3780	4320	4860	5400	6480	8640
12	a	51 50	59 25	69 00	78 00	86 75	95 75	104 50	113 50	122 25	140 00	175 00
	b	56 00	64 75	74 50	85 00	94 50	103 50	115 50	125 00	135 00	155 00	205 00
	c	1149	1330	1553	1696	1952	2147	2353	2554	2750	3148	3932
	d	2	3	3	4	5	5	6	6	7	8	10
	e	1556	1944	3111	3888	4666	5444	6221	6999	7776	9332	12420
14	a	66 50	74 75	87 00	97 50	107 75	116 00	128 75	139 25	149 50	170 35	212 00
	b	71 00	80 00	92 50	105 00	116 50	125 75	140 25	150 75	162 50	185 50	242 00
	c	1492	1676	1950	2194	2431	2613	2901	3161	3377	3808	4769

A—Price with riveted hoops. B—Price with lug hoops. C—Weight of tank. D—Number of hoops.
 E—Capacity in gallons. Larger Sizes will be found on Next Page.

STANDARD LIST NO. 3. **Finished Tanks made from Three Inch Lumber.**

List No. 2.—Continued.
 From previous page.

Bot. diam., ft.	Length of Stave—Feet.				
	2	2 1-2	4	5	
14	d 2117	2646	4252	5292	
16	a 83 50	94 50	107 25	119 25	
	b 88 00	99 75	113 50	126 75	
	c 1871	2110	2406	2661	
	d 2765	3456	5530	6912	
18	a 100 50	109 00	128 75	142 00	
	b 110 50	120 00	141 00	155 00	
	c 2265	2453	2898	3191	
	d 3500	4374	6999	8748	
20	a 123 00	130 25	152 50	167 50	
	b 135 00	143 75	165 00	180 50	
	c 2765	2929	3443	3774	
	d 4320	5400	8640	10800	
Length of Stave—Feet.					
	6	7	8	9	
14	d 6341	7409	8468	9526	
16	a 131 00	143 00	155 00	166 75	
	b 140 75	152 75	167 00	180 00	
	c 2943	3217	3486	3753	
	d 8295	9677	11060	12442	
18	a 155 50	168 75	182 00	195 75	
	b 175 00	188 75	206 00	220 00	
	c 3485	3900	4093	4398	
	d 10498	12248	13997	15747	
20	a 182 25	197 00	210 75	226 75	
	b 203 25	218 00	236 75	253 00	
	c 4095	4425	4738	5103	
	d 12960	15120	17280	19440	
Length of Stave—Feet.					
	10	12	14	16	
14	d 10584	12700	14818	16935	
16	a 178 75	202 50	226 25	250 00	
	b 192 75	218 50	253 00	280 00	
	c 4022	4551	5095	5622	
	d 13824	16589	19354	22119	
18	a 208 50	235 25	261 75	288 50	
	b 235 50	262 25	306 75	338 50	
	c 4695	5294	5890	6482	
	d 17496	20996	24495	27994	
20	a 241 50	271 00	300 00	330 50	
	b 275 00	306 00	348 00	381 00	
	c 5438	6096	6770	7434	
	d 21600	25920	30240	34560	

A—Price with riveted hoop.
B—Price with lug hoops. **C**—Weight of tank. **D**—Number of hoops. **E**—Capacity in gallons.

Cisterns with 18 and 20 ft. diameter bottom have two sets Lugs; smaller sizes one set.

Bot. diam., ft.	Length of Stave—Feet.					
	10	12	14	16	18	20
10	a 147 00	169 40	191 75	214 25	236 50	259 00
	b 7	8	10	12	14	16
	c 3770	4361	4958	5518	6096	6650
	d 5400	6840	7560	8640	9720	11800
12	a 183 50	210 00	236 50	263 25	289 75	316 50
	b 7	8	10	12	14	16
	c 4795	5390	6055	6720	7443	8110
	d 7776	9332	10887	12420	13797	15552
14	a 222 50	253 50	284 25	315 00	345 75	376 50
	b 7	8	10	12	14	16
	c 5892	6708	7524	8316	9132	9950
	d 10584	12701	14718	16935	19160	21168
16	a 268 00	303 75	339 50	375 50	411 00	446 50
	b 7	8	10	12	14	16
	c 7640	8028	8976	9924	10848	11832
	d 13824	16589	19354	22065	24884	27648
18	a 312 75	352 75	392 75	432 50	473 00	512 50
	b 7	9	10	13	15	17
	c 8340	9324	10440	11436	12516	13428
	d 17496	20996	24595	27994	31493	34992
20	a 364 00	406 75	453 60	498 50	543 25	588 00
	b 7	9	10	13	15	17
	c 9876	10976	12210	13413	14630	15840
	d 21600	25920	30240	34560	38880	43200
22	a 410 90	459 25	507 50	555 75	591 50	638 50
	b 7	9	10	13	15	17
	c 11070	12364	13664	14820	15802	17184
	d 26130	31364	36596	41818	47045	52272
24	a 467 50	520 75	574 00	627 50	680 50	733 50
	b 7	9	10	13	15	17
	c 12630	14006	15460	16890	18296	19740
	d 31104	37325	43488	49767	55988	62208
26	a 527 00	585 25	643 25	701 50	759 50	817 50
	b 7	9	10	13	15	17
	c 14166	15766	17320	18910	20434	22090
	d 36504	43805	51106	58374	65708	72808
28	a 589 50	652 50	715 50	778 50	841 50	904 50
	b 7	9	10	13	15	17
	c 16300	17962	19690	21387	23225	24890
	d 42336	50804	59271	67738	76205	84672
30	a 651 00	718 00	785 50	852 50	919 75	987 00
	b 7	9	10	13	15	17
	c 18258	20208	22047	23931	25818	27682
	d 48600	58320	68040	77760	87480	97200

One set lugs to each hoop.

Two sets lugs to each hoop.

Three sets lugs to each hoop.

A—Price with lug hoops. **B**—Number of hoops. **C**—Weight of tank. **D**—Capacity in gallons.

STANDARD LIST NO. 4. Unfinished Cisterns Made from One and One-Half Inch Lumber.

Bot. diam., ft.	Length of Stave—Feet.												
	2	2½	4	5	6	7	8	9	10	12	14	16	
4	a	5 75	6 75	9 75	11 25	13 00	15 00	16 75	18 50	19 50	24 00	27 50	31 50
	b	7 75	8 75	12 75	14 75	18 00	20 00	23 00	24 75	27 00	32 00	41 00	46 25
	c	143	170	235	280	325	375	423	460	485	600	700	785
	d	23	27	39	45	52	60	67	74	78	96	110	126
	e	171	216	346	432	519	605	692	778	864	1037	1210	1383
5	a	7 85	9 00	12 50	14 50	16 75	19 25	21 25	23 50	25 75	30 50	34 75	39 25
	b	10 00	11 00	15 50	17 50	21 75	24 25	27 50	29 75	33 25	38 50	48 25	54 00
	c	195	225	315	360	415	480	535	585	640	750	860	975
	d	31	36	50	58	67	77	85	94	103	122	129	157
	e	270	338	540	675	810	945	1080	1215	1350	1620	1890	2160
6	a	10 40	11 50	15 50	18 50	21 00	23 50	26 50	29 00	31 50	37 00	42 25	47 50
	b	12 40	13 50	18 50	21 50	26 00	28 50	32 75	35 25	39 50	46 00	56 25	62 50
	c	260	285	380	460	525	585	660	725	785	925	1050	1180
	d	42	46	62	74	84	94	106	116	126	148	169	190
	e	389	486	778	972	1167	1361	1556	1750	1944	2333	2722	3111
7	a	13 00	14 50	19 25	22 25	25 25	28 50	31 25	34 50	37 50	43 75	48 50	56 00
	b	15 00	16 50	22 75	25 75	30 75	34 00	38 75	42 00	46 50	53 75	63 50	73 00
	c	325	360	490	555	630	712	780	860	935	1090	1210	1400
	d	52	58	77	89	101	106	125	130	150	175	194	224
	e	530	659	1059	1323	1588	1853	2117	2382	2646	3176	3705	4234
8	a	16 00	17 75	23 00	26 50	30 25	33 50	37 25	40 50	44 00	51 00	58 00	65 00
	b	18 25	20 00	26 50	30 00	35 75	39 00	44 75	48 00	54 00	62 00	74 00	84 00
	c	400	465	575	660	750	830	930	1010	1100	1270	1450	1620
	d	64	71	92	106	121	133	149	155	176	204	232	260
	e	692	864	1383	1728	2074	2420	2765	3111	3456	4148	4839	5530
9	a	19 25	21 25	27 25	31 25	35 25	39 00	43 25	46 50	51 25	59 00	67 25	75 00
	b	21 50	23 50	31 00	35 00	41 25	45 00	51 25	54 50	61 25	70 00	83 25	94 00
	c	480	530	680	780	880	975	1080	1160	1280	1475	1680	1875
	d	77	85	115	125	146	156	173	186	205	235	269	300
	e	875	1091	1750	2187	2625	3062	3500	3937	4374	5249	6164	6999
10	a	24 75	26 75	31 75	36 00	40 50	44 75	49 25	53 50	58 00	68 75	75 50	84 50
	b	27 25	29 25	35 50	40 50	47 00	51 25	57 25	62 00	69 00	80 75	92 50	104 50
	c	615	645	790	900	1012	1118	1230	1335	1450	1700	1880	2110
	d	95	95	127	140	160	177	197	214	232	275	302	338
	e	1080	1350	2160	2700	3240	3780	4320	4860	5400	6480	7560	8640
12	a	30 75	35 50	41 50	46 75	52 00	57 50	62 75	68 00	73 50	84 00	96 00	105 25
	b	33 25	38 00	46 50	51 75	59 00	65 00	71 75	77 00	85 50	97 00	114 00	124 25
	c	765	885	1035	1165	1300	1435	1545	1700	1830	2100	2400	2630
	d	110	110	150	184	204	230	261	272	294	335	384	420
	e	1556	1944	3111	3888	4666	5444	6221	6999	7776	9332	10887	12420

A—Price without hoops. B—Price with lugs, no hoop. C—Weight without hoop. D—Weight of hoop in pounds. E—Capacity in gallons.

STANDARD LIST NO. 5.
Unfinished Cisterns Made from Two Inch Lumber.

Bot. diam., ft.	Length of Stave—Feet.											
	2	2½	4	5	6	7	8	9	10	12	14	16
4	a	7 75	9 00	13 00	15 00	17 25	20 00	22 25	24 75	27 25	32 00	42 00
	b	9 75	11 00	16 50	18 25	22 50	25 25	29 50	32 00	35 50	41 50	57 00
	c	190	225	325	375	431	500	556	618	680	800	1050
	d	25	28	43	48	55	65	70	76	87	98	115
	e	171	216	346	432	519	605	692	778	864	1037	1383
5	a	10 50	12 00	16 50	19 25	22 25	25 50	28 25	31 25	34 25	40 75	52 25
	b	12 75	14 00	20 00	22 50	27 50	30 75	35 75	38 75	42 50	50 25	68 25
	c	262	300	413	481	556	637	706	781	856	1008	1311
	d	32	42	53	63	70	80	86	96	107	128	164
	e	270	338	540	675	810	945	1080	1215	1350	1620	2160
6	a	13 75	15 25	20 66	24 75	28 00	31 25	35 25	38 75	42 40	49 25	63 50
	b	16 50	17 50	24 00	28 25	33 25	36 75	42 75	46 25	51 65	59 75	79 50
	c	343	381	516	618	700	781	881	968	1060	1231	1406
	d	42	52	63	73	85	95	106	126	132	158	198
	e	389	486	778	972	1167	1361	1556	1750	1944	2333	3111
7	a	17 25	19 50	25 75	29 75	33 25	38 00	41 75	46 00	50 00	58 25	74 50
	b	20 00	22 50	29 75	35 25	39 00	43 25	49 75	53 50	59 25	68 25	91 50
	c	431	487	643	743	843	950	1033	1150	1250	1457	1862
	d	54	62	83	94	105	125	136	146	157	182	232
	e	530	659	1059	1323	1588	1853	2117	2382	2646	3176	4234
8	a	21 50	23 75	30 75	35 25	40 25	44 75	49 75	54 00	58 75	68 00	86 75
	b	24 25	26 75	35 00	40 75	46 50	51 00	57 75	61 25	69 00	79 50	103 75
	c	537	593	768	881	1005	1118	1243	1350	1468	1700	2168
	d	67	75	96	104	125	135	156	166	187	218	272
	e	692	864	1383	1728	2074	2420	2765	3111	3456	4148	5530
9	a	25 75	28 75	36 25	41 75	47 00	52 00	57 75	62 00	68 25	78 75	100 00
	b	28 50	31 75	40 75	47 75	53 25	58 25	66 25	70 00	78 50	90 25	117 00
	c	643	718	906	1044	1175	1300	1444	1550	1706	1968	2500
	d	82	92	113	134	145	160	186	196	217	248	312
	e	875	1091	1750	2187	2625	3062	3500	3937	4374	5249	6999
10	a	32 50	34 50	42 25	48 00	54 00	59 75	65 50	71 50	77 25	89 25	112 75
	b	35 75	39 00	46 75	54 00	60 25	66 00	74 00	79 50	88 50	101 75	131 75
	c	812	862	1056	1200	1350	1490	1637	1787	1930	2230	2818
	d	102	108	133	154	175	185	206	226	247	278	332
	e	1080	1350	2160	2700	3240	3780	4320	4860	5400	6480	8640
12	a	41 25	47 50	55 25	60 50	69 50	76 50	83 50	90 75	97 75	112 00	140 00
	b	44 75	52 00	59 75	66 50	75 75	82 75	93 00	100 25	109 00	124 50	164 00
	c	1031	1187	1381	1512	1737	1912	2087	2268	2443	2800	3500
	d	118	143	173	184	215	235	266	286	307	348	432
	e	1556	1944	3111	3888	4666	5444	6221	6999	7776	9332	12420
14	a	53 25	59 75	69 50	78 00	86 25	92 75	103 00	111 50	119 50	136 25	169 50
	b	56 75	64 00	74 00	84 50	93 50	100 75	113 00	121 00	130 75	148 75	293 50
	e	1330	1493	1737	1950	2156	2318	2575	2805	3000	3390	4237

A—Price with no hoops. B—Price with lugs, no hoops. C—Weight of tank. D—Weight of hoops.
 E—Capacity in gallons. **Larger Sizes will be found on Next Page.**

STANDARD LIST NO. 6. **Unfinished Tanks made from Three Inch Lumber.**

List No. 5.—Continued.

From previous page.

Bot. di- am., ft.	Length of Stave—Feet.			
	2	2 1-2	4	5

14	d	162	183	213	244
	e	2117	2646	4252	5292
16	a	66 75	75 50	85 75	95 50
	b	70 25	79 75	91 00	102 00
	c	1668	1887	2143	2387
	d	203	233	263	274
	e	2765	3456	5530	6912
18	a	80 50	87 25	103 00	113 50
	b	89 00	96 25	112 25	124 50
	c	2012	2180	2575	2837
	d	253	273	323	354
	e	3500	4374	6999	8748
20	a	98 50	104 25	122 00	134 00
	b	108 50	115 75	132 50	144 00
	c	2462	2606	3050	3350
	d	303	323	393	424
	e	4320	5400	8640	10800

Length of Stave—Feet.

		6	7	8	9
14	d	275	295	326	356
	e	6341	7409	8468	9526
16	a	104 75	114 50	124 00	133 50
	b	112 00	122 50	134 00	145 00
	c	2618	2862	3100	3337
	d	325	355	386	416
	e	8295	9677	11060	12442
18	a	124 50	135 00	145 50	156 50
	b	141 50	152 00	165 50	176 50
	c	3110	3375	3637	3912
	d	375	425	456	486
	e	10498	12248	13997	15747
20	a	145 75	157 50	168 50	181 50
	b	162 75	174 50	190 50	203 50
	c	3640	3935	4212	4537
	d	455	495	526	566
	e	12960	15120	17280	19440

Length of Stave—Feet.

		10	12	14	16
14	d	377	418	450	532
	e	10584	12700	14818	16935
16	a	143 00	161 75	181 00	200 00
	b	155 25	175 25	206 00	224 00
	c	3575	4043	4525	5000
	d	447	508	570	622
	e	13827	16589	19354	22119
18	a	166 75	188 25	209 50	230 50
	b	190 25	209 25	246 00	268 25
	c	4168	4706	5230	5760
	d	527	588	660	722
	e	17496	20996	24495	27994
20	a	193 25	216 75	240 00	264 50
	b	222 00	243 00	284 00	303 50
	c	4831	5418	6000	6612
	d	607	678	770	822
	e	21600	25920	30240	34560

A—Price with no hoops.
 B—Price with lugs, no hoops.
 C—Weight of tank.
 D—Weight of hoops. E—Capacity in gallons.

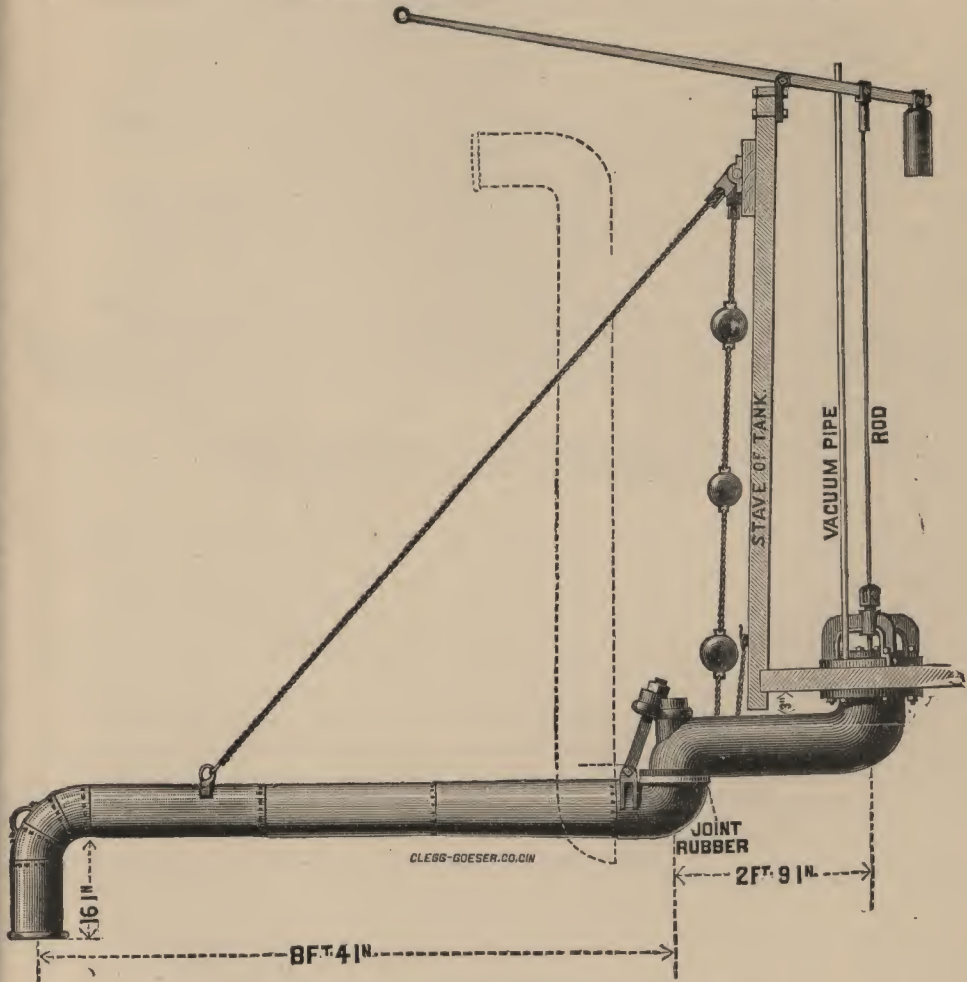
Cisterns with 18 and 20 ft. diameter bottom have two sets Lugs; smaller sizes one set.

Length of Stave—Feet.

Bot. diam., ft.		10	12	14	16	18	20
10	a	117 50	135 50	153 50	171 50	189 25	207 25
	b	3232	3740	4250	4730	5225	5700
	c	538	621	708	788	871	950
	d	5400	6840	7560	8640	9720	11800
12	a	146 75	168 00	189 25	210 25	231 50	253 25
	b	4110	4620	5190	5760	6380	6950
	c	685	770	865	960	1063	1160
	d	7776	9332	10887	12420	13797	15552
14	a	178 00	202 75	227 50	252 00	276 50	301 25
	b	4910	5590	6270	6930	7610	8300
	c	982	1118	1254	1386	1522	1650
	d	10584	12701	14718	16935	19160	21168
16	a	214 50	243 00	271 50	300 50	328 75	357 25
	b	5950	6690	7480	8270	9040	9860
	c	1190	1338	1496	1654	1808	1972
	d	13824	16589	19354	22065	24884	27648
18	a	250 25	282 25	314 25	346 00	378 50	410 00
	b	6950	7770	8700	9530	10430	11190
	c	1390	1554	1740	1906	2086	2238
	d	17496	20996	24585	27994	31493	34932
20	a	291 25	325 50	363 00	399 00	434 50	470 50
	b	8080	8980	9990	10975	11970	12960
	c	1796	1996	2220	2438	2660	2880
	d	21600	25920	30240	34560	38880	43200
22	a	328 75	367 50	406 00	444 50	473 25	510 75
	b	9040	10120	11180	12140	12930	14060
	c	2030	2244	2484	2680	2872	3124
	d	26130	31364	36596	41818	47045	52272
24	a	374 00	416 50	459 25	502 00	544 50	586 75
	b	10330	11460	12650	13820	14970	16150
	c	2300	2546	2810	3070	3326	3590
	d	31104	37325	43438	49767	55988	62208
26	a	421 50	468 25	514 50	561 25	607 50	654 00
	b	11590	12900	14170	15470	16720	18030
	c	2576	2866	3150	3440	3714	4060
	d	36504	43805	51106	58374	65708	72808
28	a	471 50	522 00	572 50	622 75	673 25	723 50
	b	13040	14370	15750	17110	18580	19910
	c	3260	3592	3940	4277	4645	4980
	d	42336	50804	59271	67738	76205	84672
30	a	520 75	574 50	628 50	682 00	734 50	789 50
	b	14320	15850	17290	18770	20250	21710
	c	3938	4358	4757	5161	5568	5972
	d	48600	58320	68040	77760	87480	97200

Capacity in gallons. D—Weight of hoops. C—Weight of tank. E—Price with no hoop nor lugs.

A—Price with no hoops. B—Price with lugs, no hoops. C—Weight of tank. D—Weight of hoops. E—Capacity in gallons.



POAGE'S TANK VALVE.

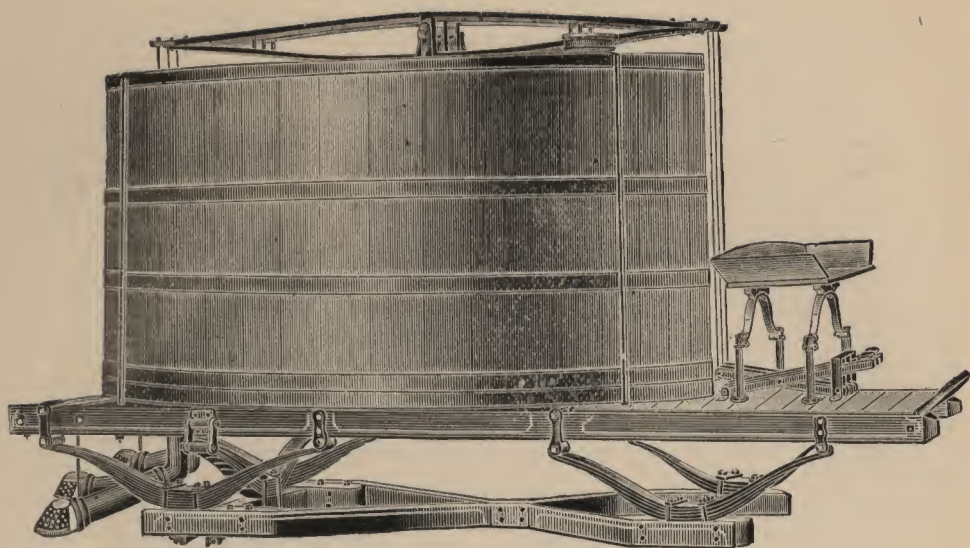
WITH UNIVERSAL JOINT.

With pipe **B** 2 feet 9 inches long. This is the one generally ordered, and will be sent where Tank Valve is ordered without specially ordering the kind. The standard length of pipe **A** is 8 feet 4 inches. Stock of this length on hand; other lengths made to order.

Reduced Price List of Tank Valves, Complete, as per Cut.

Pipes, 6 in. diam., \$55; pipes, 7 in. diam., \$65; pipes, 8 in. diam., \$75.

This Tank Outlet Valve we consider the best in the Market.



The Winship Sprinkling wagons are made in two styles, the Platform Sprinkler with upright tank, and the Accommodation Gear Sprinkler with long tank. Several sizes are made, thus adapting them to the requirements of large towns, public parks, villages and private grounds. Sprinklers are sold with or without the wagon.

POINTS OF EXCELLENCE.

A well made wagon with heavy axles, steel thimbles and wide tires. Springs of the most approved pattern and best quality of steel. The seat in front of tank, giving the driver a perfect command of team and avoiding the danger and trouble of climbing to a seat placed on top of the tank as is the case with other sprinkling wagons.

Tanks made of Louisiana Cypress Lumber. The larger sizes of sprinklers have three discharge heads, smaller sizes have two heads, these are connected with heavy pipes to the valves in tank; the valves are controlled by means of the foot levers at the driver's seat.

The heads are cast iron, faced with perforated galvanized sheet iron for the water discharge and are arranged to sprinkle a large surface in the best manner and without waste of water. The heads are reversible, permitting the water to be thrown upwards, or by adjusting set screw the head is reversed and the water is discharged directly towards the ground, thus allowing these sprinklers to be used in time of heavy winds without throwing water on footman and passing carriages.

A removable box strainer is placed at the intake to catch leaves or any other matter that would obstruct the discharge heads.

The accommodation gear sprinkler will fit any farm or lumber wagon and can be shipped knock down or set up as desired.

The valves are made expressly for these tanks, are very reliable and quick acting.

Street Sprinklers.

PRICE LIST OF

Winship Sprinkling Wagons

PLATFORM SPRINKLER.

No. 1—Capacity 750 Gallons, 4 inch steel skein axles, width of tire 4 inch, weight 2900 lbs.....	\$ 390 00
No. 2—Capacity 600 Gallons, 3 $\frac{3}{4}$ inch steel skein axles, width of tire 3 inch, weight 2700 lbs	315 00
No. 3—Capacity 500 Gallons, 3 $\frac{1}{2}$ inch steel skein axles, width of tire 3 inch, weight 2400 lbs.....	270 00

ACCOMMODATION GEAR SPRINKLER.

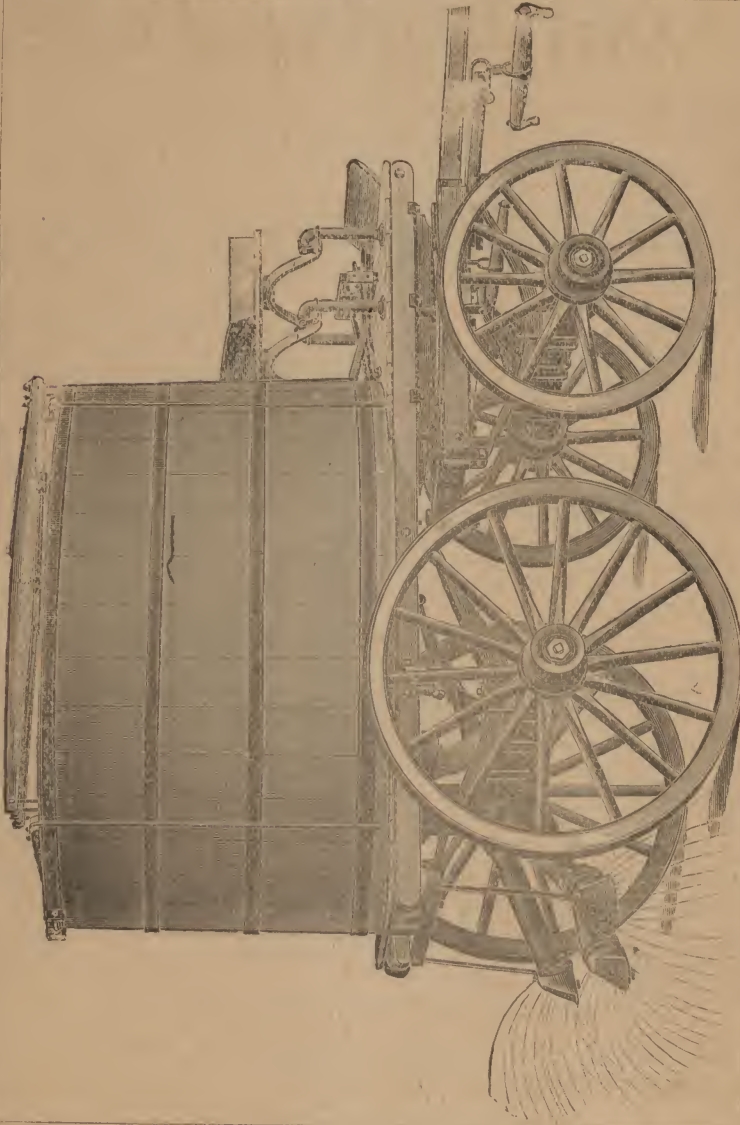
No. 4—Capacity 600 Gallons, 3 valves, 3 $\frac{3}{4}$ steel skein axles, width of tire 3 inch, complete with wagon, weight 2600 lbs.....	225 00
No. 4—Without wagon, weight 1725 lbs.....	150 00
No. 5—Capacity 500 Gallons, 2 valves, 3 $\frac{1}{2}$ inch steel skein axles, width of tire 3 inch, complete with wagon, weight 2400 lbs	202 50
No. 5—Without wagon, weight 1525 lbs.....	135 00
No. 6—Capacity 400 Gallons, 2 valves, 3 $\frac{1}{4}$ inch skein axles, width of tire 3 inch, complete with wagon	187 50
No. 6—Without wagon.....	127 50

WINSHIP SPRINKLER ATTACHMENTS.

Three valve sprinkling attachments, complete	67 50
Two valve sprinkling attachments, complete.....	52 50

Correspondence Solicited.

LOUISIANA SPRINKLER.



Best Street Sprinkler in the market. Our own make. Write for prices.

CYPRESS--A REMARKABLE WOOD.

It is the only wood in the world suitable for Water Tanks, because it is a water wood. It grows in the water, it is cut down in the water, and is floated to the mills in the water; it is, therefore, by nature, a water wood.

This wet weather wood must take the place where it properly belongs. In the line of lumber it is as necessary as are rubber coats and gum shoes in the clothing line. It must be borne in mind that cypress is comparatively a new wood so far as is known by people generally. There are railway corporations in the country without number whose tanks are made of pine. One would think that these corporations would be wise, but they are not.

It is about as sensible to put pine into cisterns or tanks as it is to put paper soles into boots when the wearer of the boots intends to wade in water. Although quite a new wood in the North, it is not new with the South, as to-day the majority of Tanks are made from this wood. It has been proven that these Cypress tanks have been in use for upwards of thirty years without being repaired.

Species of this tree are indigenous to Southern Europe, East Indies, China, Guatemala, California and North America. They belong to the Coniferæ, or cone-bearing trees represented by the evergreens. Among the ancients it was in request for ratters, joist, etc., and their musical instruments were made of it. Its great durability led to its use for mummy cases and images of gods. A statue of Jupiter, carved out of Cypress, is stated by Pliny to have existed 600 years without showing signs of decay.

The doors of ancient St. Peter's

at Rome, were made of this wood, and when removed by Eugenius IV, were about 1,000 years old, but, nevertheless, were in a state of perfect preservation.

The history of our native variety is equally interesting, though little is known about it by the people of the North. The French and Spanish authorities, during a hundred years of Colonial rule, never failed to recommend it to their respective governments as the most valuable timber that could be found. It is one of the most interesting of its genus, and is a majestic tree.

It grows in groups called "brakes," in the swamps and bayous of some of our Southern States, and under favorable conditions attains an enormous size. The trunk is straight and without limb, often to the height of seventy-five feet or more, and twenty-five feet and over in circumference above the conical base, which, at the ground, is often three or four times in diameter of the trunk. Authorities disagree as to the varieties; some claiming that there are three kinds—red, white or yellow, and black, while others that they take their names from the color of their heart wood, which varies according to soil and conditions. All agree that it is a wood of remarkable durability.

Its color is of reddish brown, somewhat resembling our yellow pine, and in weight is somewhat heavier than white pine. No wood that grows in the South so resembles and possesses all the prominent virtues of white pine. This, coupled with the durability of cedar, makes it a favorite wood in the South for all tanks and cisterns, and exposed parts of buildings. It is also much used for inside finish.

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